

In the Abstract

Please make the corrections to the abstract as noted below:

An air-filled pipette for accurately metering small and large volumes of fluid samples is provided. The pipette has dual resolution capability such that the pipette can accurately aspirate a wide range of sample volumes and deliver them contact-free (touchless). The pipette may include an extension mandrel ~~within the pipette tip, which helps to reduce the internal volume that reduces air space in a disposable tip~~ within the pipette. The dual resolution capability and/or the extension mandrel also help to minimize errors associated with the compressibility of air ~~the internal volume of air within the pipette so that measurement error associated with the compression or expansion of air within the pipette is minimized~~. Multiple pipettes may also be arranged to form a pipetting module for the metering of multiple sample volumes simultaneously and automatically. The pipette includes a channel block having at least one cylindrical passage, that slides up and down over a rod, ~~sized, shaped, and aligned to pass into the cylindrical passage,~~ and a cylinder, having with an axially extending passage therethrough, that is sized, shaped and aligned to pass fit into the cylindrical passage in a dynamic sealing relationship. A method for mixing multiple fluid samples within a pipette tip is also provided.